

We claim:

1. A satellite broadcasting system comprising:

a satellite dish coupled to a low-noise block converter;

said low-noise block converter is coupled to a first means of converting vertical polarization signals and horizontal polarization signals or left-hand circular polarization signals and right-hand circular polarization signals from a satellite and transmitting simultaneously via a single coaxial cable for enabling two different frequencies and polarities to be transmitted simultaneously via said single coaxial cable;

a second means is coupled to said first means;

said second means converts said vertical polarization signals and said horizontal polarization signals or said left-hand circular polarization signals and said right-hand circular polarization signals from said first means to its original received ^{frequency and polarity} state from said satellite dish;

a satellite receiver is coupled to said second means;

and

^Q
~~said~~ source is coupled to said satellite receiver.
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